

L1 ANSWER 3 OF 10 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
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 TI Acrylic acid prodn. plus - by gaseous catalytic oxidn. of acrolein with oxygen using fixed bed multi tube reactor packed with catalyst supported on inert carrier.
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 Prodn. of acrylic acid comprises: in the method producing acrylic acid by gaseous catalytic oxidn. of acrolein with molecular oxygen using fixed bed multtube reactor packed with catalyst in which catalytically active material contg. at least Mo and V is supported on inert carrier, successively packing catalysts of larger supporting rates of catalytically active materials from material gas inlet side of reactor towards outlet side and then reacting.
 Compsn. of catalytically active material contg. at least Mo and V is that represented by formula $M_{a}W_{b}C_{c}U_{d}B_{e}C_{f}O_{x}$, A = W and/or Nb; B = Co, Fe, Ni, Mn, Bi, Cr, Sb, Ma, As, Sn, Sr, Ca; C = Si, Al, Ti, Zr, Ce; when a = 12, b = 1-6, c = 0-5, d = 0-5, and f = 0-10; x = value depending on oxidn. state of each element.
 Supporting rates of catalytically active material of 10-30% and 20-40% at positions of each 1/3-2/3 from inlet side and outlet side, resp. of reactor.
 ADVANTAGE - Heat reserve in catalyst layer can be prevented with ease compared with conventional method diluting catalyst with inert material, so high productivity of acrylic acid can be obtd. with no care for runaway reaction. Further, both conversion rate of acrolein and yield of acrylic acid are higher than usual method.
 Dwg. 0/0
 FS CPI
 FA AB; DCN
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